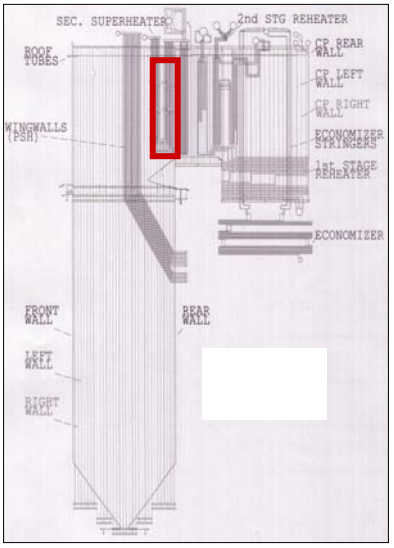
AREA: Secondary Superheater Front Pendant



By: Joe Smith

The area was numbered from boiler left side to boiler right side. See the diagram below for specific tube numbering nomenclature.

Items were marked with white grease stick and blue paint.

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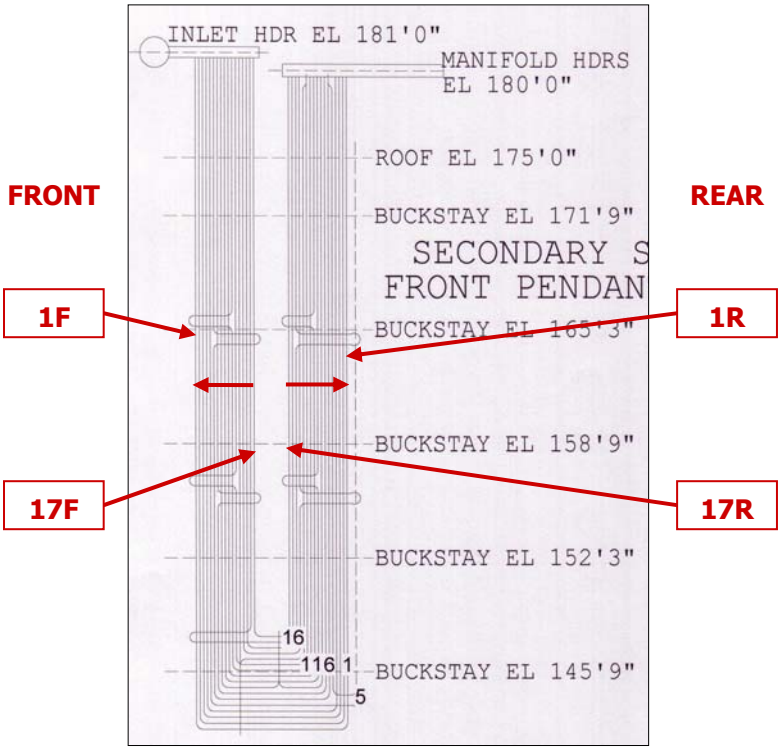
Tube Numbering Nomenclature



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P R I O R I T Y # 1 R E P A I R S

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Repair item #: 93
Area: Sec Superheater Front Pend

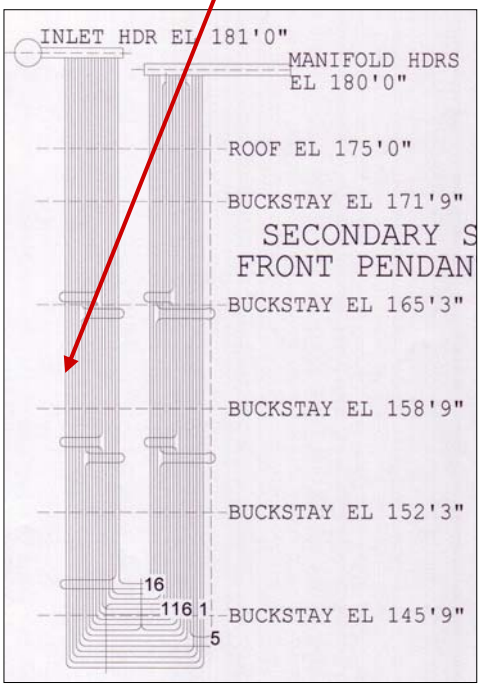
Repair #: 93-a Record:# 174
Action: TUBE REPLACEMENT
Priority #: 1

General location is Sec Superheater Front Pend, IK L/R 6 Blower Path
Elevation: 160'

Appearance: Erosion Flat

Material: 2.0" OD x .354" MWT x SA-213T22

UT Result: 0.093”



Install a 3' dutchman on tube 1F of assembly 19. The cut lines should start 6" below the tube tie weld and extend upward for 3'. This replacement will require a dissimilar metal weld. **The lower material is SA-213-321H and the upper material is SA-213-T22.** UDC recommends installing a 'safe end' at this location. The dissimilar metal weld of the safe end is welded with inconel under controlled conditions. The inconel minimizes the differential expansion rate of the two differing materials. After the tube is replaced, re-align the tube with the assembly to prevent future degradation by erosion.

Work Order: _____ Status: Inspected

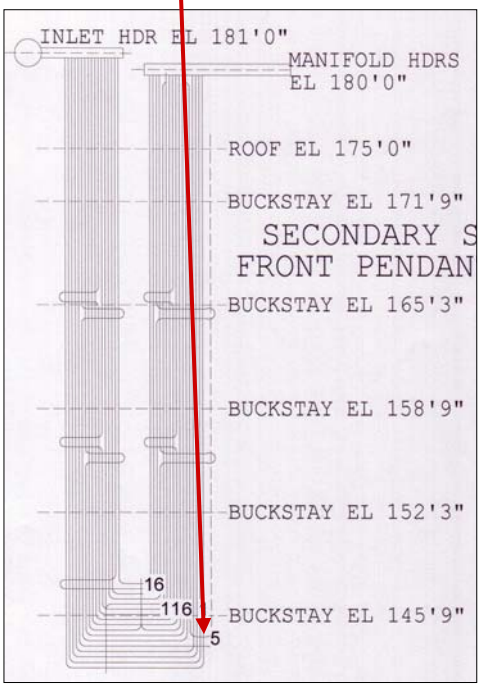
Repair item #: 94
Area: Sec Superheater Front Pend

Repair #: 94-a Record:# 187
Action: PAD WELD
Priority #: 1

General location is Sec Superheater Front Pend, Trailing Side.
Elevation: 144'

Cause: Abrasion Damage or Mechanical Rub
Appearance: Abraded

Material: 1.75" OD x .230" MWT x SA-213TP321H



The secondary superheater tubing has been abraded from the wrapper tube on the right side of the assembly for an estimated depth of 1/16". Restore the tubing to MWT by applying a 2" pad weld at the following assembly(tube):

39(1R)
41(1R)
42(2R)

After the pad welds are completed, install a 6" wear shield centered off the ssh wrapper tube on the right side.

Work Order: _____ Status: Inspected